

We propose the following amendment:

1. (currently amended) A method comprising:

compiling a function including a byte code sequence having a field byte code that accesses or modifies a field, the compiled function providing a native code and occupying a code space;

generating an instrumentation code corresponding to a field watch of the accessed or modified field, the instrumentation code including code for executing an event hook function;

guarding execution of the instrumentation code if the field watch is not activated; and inserting the instrumentation code to the native code.

8. (currently amended) The method of claim 2 wherein executing the field watch sequence comprises:

saving live global state, the live global state corresponding to an active register;

executing an the event hook function for an event corresponding to the field watch;

and

restoring the live global state.

For 09/822,090: Dynamic recompilation.

The same comments for the static/ semi-static models apply.

The field watch sequence is not executed until the field watch is activated.

We propose the following amendments:

1. (currently amended) A method comprising:
rc-compiling a function when a field watch for a field is activated, the function including a byte code sequence having a field byte code that accesses or modifies the field, the recompiled function providing a native code and occupying a code space;
generating an instrumentation code corresponding to the field watch of the field, the instrumentation code including code for executing an event hook function; and
inserting the instrumentation code to the native code.
4. (currently amended) The method of claim 3 wherein executing the field watch sequence comprises:
saving live global state, the live global state corresponding to an active register;
executing an the event hook function for an event corresponding to the field watch;
and
restoring the live global state.

Please also make the following amendments to the specification:

change "filed" to "field" in [0039] (three places, lines 3, 5, and 6) and in [0071] (line 1).

Thank you for your prompt attention on this matter. If you have any questions, please do not hesitate to contact me.

Regards,

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